## CLAIMS

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- 1. A filter structure, in particular a particle filter for the exhaust gas from an internal combustion engine, the filter being of the type comprising:
- at least first and second filter members (15A, 15B) provided with first and second faces (24A, 24B) located facing each other; and
- a joint (17) connecting said faces together and extending between said faces (24A, 24B);
- the structure being characterized in that the first face (24A) comprises at least a first zone (33A) of strong adhesion with said joint (17) and at least a zone (35A) of weak or no adhesion with the joint (17), said zones (33A, 35A) respectively comprising a first region of strong adhesion with said joint (17) and a region of weak or no adhesion with joint (17), said regions being disposed respectively facing a first region (35B) of weak or no adhesion with said joint (17) on the second face (24B), and a region (33B) of strong adhesion with said joint (17) on the second face
  - 2. A structure according to claim 1, characterized in that the first face (24A) further comprises a second zone (33C) of strong adhesion with said joint (17) comprising a second region of strong adhesion with said joint (17) placed facing a second region (35C) of weak or no adhesion with said joint (17) on the second face (24B).
- 3. A structure according to claim 2, characterized in that, in at least one section of the filter structure, the region (35A) of weak or no adhesion with said joint (17) on the first face (24A) lies between the first and second regions (33A, 35C) of strong adhesion with said joint (17) on said first face (24A).

4. A structure according to claim 3, characterized in that said section is a longitudinal section.

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- 5. A structure according to claim 3, characterized in that said section is a cross-section.
- 5 6. A structure according to any one of claims 1 to 5, characterized in that at least one filter member (15) is a prismatic brick having each of its side faces (24) facing a side face (24) of an associated filter member (15), a joint (17) extending between said faces (24) to 10 connect them together; and in that each of the side faces (24) of the brick comprises at least one zone (33) of strong adhesion between said face of the brick and said joint (17), and at least one zone (35) of weak or no adhesion between said face (24) and said joint (17), said 15 zones comprising respectively a region (33) of said face of the brick presenting strong adhesion with said joint (17), and a region (35) of said face (24) presenting weak or no adhesion with said joint (17), said regions being disposed respectively facing a region (35) of the facing 20 face (24) of the associated filter member (15) presenting weak or no adhesion with said joint (17), and a region (33) of the facing face (24) of the associated filter member (15) presenting strong adhesion with said joint (17).

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- 7. A structure according to claim 6, characterized in that the region (33D) of the first face (24D) of the brick (15C) presenting strong adhesion with said joint (17) is disposed opposite from a region (35E) of a second face (24E) of the same brick (15C) presenting weak or no adhesion with said joint (17).
- 8. A structure according to any one of claims 1 to 7, characterized in that each of the zones (35) of weak or no adhesion with said joint is covered in an anti-adhesive coating, at least prior to the structure being put into operation.

9. A structure according to any preceding claim, characterized in that each of the first and second filter members (15A, 15B) has an admission face (21) and an exhaust face (23) interconnected by said first and second faces (24A, 24B), at least one downstream region (35H; 35L) of the first face (24A) presenting weak or no adhesion with said joint (17) extending to the common edge (71; 71K) between the exhaust face (23) and said first face (24A).

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- 10. A structure according to claim 9, characterized in that said downstream region (35H) presents a length taken parallel to a longitudinal direction (X-X') of the first filter member (15A) that is less than one-fifth of the length of said first filter member (15A) taken along said longitudinal direction (X-X').
- 11. A structure according to claim 10, characterized in that said downstream region (35H) presents a length, taken parallel to a longitudinal direction (X-X') of the first filter member (15A), that is less than half of at least one other region (33E, 33F) of the same face.
- 12. A structure according to any one of claims 9 to 11, characterized in that the first filter member (15A) further comprises a side face (24M) adjacent to the first face (24K), the side face (24M) presenting a side region (33N) of strong adhesion with said joint (17) extending to the common outlet edge (71M) between said side face (24K) and said exhaust face (23).
- 13. A structure according to any one of claims 9 to 12, characterized in that at least the downstream region (35L) of weak or no adhesion with the joint (17), presents surface irregularities (81) beside the joint (17), and in particular corrugations and/or grooves.